

sequencelisting-21419.ST25  
SEQUENCE LISTING

&lt;110&gt; Roche Vitamins AG

&lt;120&gt; A gene encoding vitamin B6 phosphate phosphatase and use thereof

&lt;130&gt; NDR5234

&lt;160&gt; 12

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Sinorhizobium meliloti

&lt;400&gt; 1

Ala His Ala Ile Asp Tyr Ser Val Val Pro Ala Asp Pro Ala Leu Gly  
1 5 10 15Glu Ala Ile Lys  
20

&lt;210&gt; 2

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Sinorhizobium meliloti

&lt;400&gt; 2

Ile Asp Thr Ala Asn Ala Val Met Phe Glu Asp Leu Pro Arg  
1 5 10

&lt;210&gt; 3

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Sinorhizobium meliloti

## sequencelisting-21419.ST25

&lt;400&gt; 3

Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly Ile Asp  
 1 5 10 15

Pro Asn Asp Phe Leu Glu Arg  
 20

&lt;210&gt; 4

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Sinorhizobium meliloti

&lt;400&gt; 4

Met Lys Lys Leu Asp Arg Met Pro Thr His  
 1 5 10

&lt;210&gt; 5

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (18)..(18)

&lt;223&gt; n is inosine

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (12)..(12)

&lt;223&gt; n is inosine

&lt;400&gt; 5

atgaaraary tngaymgnat g

21

&lt;210&gt; 6

&lt;211&gt; 20

&lt;212&gt; DNA

sequence1isting-21419.ST25

&lt;213&gt; Artificial

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (12)..(12)

&lt;223&gt;

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (15)..(15)

&lt;223&gt; n is a, g, c or t

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (12)..(12)

&lt;223&gt; n is a, g, c or t

&lt;400&gt; 6

tcytcraaca tncangcrtt

20

&lt;210&gt; 7

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;400&gt; 7

gccgaattcg cccatgtcac c

21

&lt;210&gt; 8

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial

&lt;400&gt; 8

cgccgtgtcg atgcggtgaa g

21

&lt;210&gt; 9

## sequencelisting-21419.ST25

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; Sinorhizobium meliloti

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)..(708)

&lt;223&gt;

&lt;400&gt; 9

atg aag aag ctc gac cgc atg ccg acc cac gcc gaa ttc gcc cat gtc Met Lys Lys Leu Asp Arg Met Pro Thr His Ala Glu Phe Ala His Val 1 5 10 15	48
acc gac tgg gtc ttc gac ctc gac aac acg ctc tat ccg cat cac gtc Thr Asp Trp Val Phe Asp Leu Asp Asn Thr Leu Tyr Pro His His Val 20 25 30	96
aat ctg ttc tca cag atc gac cgc aac atg acg gcc tat gtt gcc gaa Asn Leu Phe Ser Gln Ile Asp Arg Asn Met Thr Ala Tyr Val Ala Glu 35 40 45	144
ctc ctg tcg ctg gag cct gcg gag gcg aag aag ctg cag aag gaa tac Leu Leu Ser Leu Glu Pro Ala Glu Ala Lys Lys Leu Gln Lys Glu Tyr 50 55 60	192
tac cgc gac cac ggc acc acg ctt cag ggc ctg atg ctt cat cac ggc Tyr Arg Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly 65 70 75 80	240
atc gat ccc aat gat ttc ctc gaa aga gcc cac gcc atc gac tat agc Ile Asp Pro Asn Asp Phe Leu Glu Arg Ala His Ala Ile Asp Tyr Ser 85 90 95	288
gtg gtg ccg gcc gat ccg gcg ctc ggc gag gcg atc aag gcg ctg ccc Val Val Pro Ala Asp Pro Ala Leu Gly Glu Ala Ile Lys Ala Leu Pro 100 105 110	336
gga cgc aag ttc atc ttc acc aac ggc agc gtc gcc cat gcg gag atg Gly Arg Lys Phe Ile Phe Thr Asn Gly Ser Val Ala His Ala Glu Met 115 120 125	384
acc gcg cgg gcg ctc ggc att ctc gag cat ttc aac gac atc ttc gac Thr Ala Arg Ala Leu Gly Ile Leu Glu His Phe Asn Asp Ile Phe Asp 130 135 140	432
atc gtc gcc gcc ggc ttc ata ccg aag ccc gcc ggc gac acc tac gac Ile Val Ala Ala Gly Phe Ile Pro Lys Pro Ala Gly Asp Thr Tyr Asp 145 150 155 160	480
aag ttc atg ggc ctt cac cgc atc gac acg gcg aat gag gtg atg ttc Lys Phe Met Gly Leu His Arg Ile Asp Thr Ala Asn Glu Val Met Phe 165 170 175	528
gag gat ctg ccg cgc aac ctg gtc gtc cct aag gcg ctc ggc atg aag Glu Asp Leu Pro Arg Asn Leu Val Val Pro Lys Ala Leu Gly Met Lys 180 185 190	576
acg gtg ctg ctc gtg ccg cgc aat ctc gaa tac gag ttc gcc gag gcc	624

## sequence listing-21419.ST25

Thr Val Leu Leu Val Pro Arg Asn Leu Glu Tyr Glu Phe Ala Glu Ala  
 195 200 205

tgg gaa acg tcg agc gac gcg gac gat cag atc gac tac gtc acg gaa 672  
 Trp Glu Thr Ser Ser Asp Ala Asp Asp Gln Ile Asp Tyr Val Thr Glu  
 210 215 220

gac ctg gcg ggt ttc ctg cgc agt gtg att gtt tag 708  
 Asp Leu Ala Gly Phe Leu Arg Ser Val Ile Val  
 225 230 235

<210> 10

<211> 235

<212> PRT

<213> Sinorhizobium meliloti

<400> 10

Met Lys Lys Leu Asp Arg Met Pro Thr His Ala Glu Phe Ala His Val  
 1 5 10 15

Thr Asp Trp Val Phe Asp Leu Asp Asn Thr Leu Tyr Pro His His Val  
 20 25 30

Asn Leu Phe Ser Gln Ile Asp Arg Asn Met Thr Ala Tyr Val Ala Glu  
 35 40 45

Leu Leu Ser Leu Glu Pro Ala Glu Ala Lys Lys Leu Gln Lys Glu Tyr  
 50 55 60

Tyr Arg Asp His Gly Thr Thr Leu Gln Gly Leu Met Leu His His Gly  
 65 70 75 80

Ile Asp Pro Asn Asp Phe Leu Glu Arg Ala His Ala Ile Asp Tyr Ser  
 85 90 95

Val Val Pro Ala Asp Pro Ala Leu Gly Glu Ala Ile Lys Ala Leu Pro  
 100 105 110

Gly Arg Lys Phe Ile Phe Thr Asn Gly Ser Val Ala His Ala Glu Met  
 115 120 125

Thr Ala Arg Ala Leu Gly Ile Leu Glu His Phe Asn Asp Ile Phe Asp  
 130 135 140

Ile Val Ala Ala Gly Phe Ile Pro Lys Pro Ala Gly Asp Thr Tyr Asp  
 145 150 155 160

Lys Phe Met Gly Leu His Arg Ile Asp Thr Ala Asn Glu Val Met Phe  
 165 170 175

## sequence listing-21419.ST25

Glu Asp Leu Pro Arg Asn Leu Val Val Pro Lys Ala Leu Gly Met Lys  
180 185 190

Thr Val Leu Leu Val Pro Arg Asn Leu Glu Tyr Glu Phe Ala Glu Ala  
195 200 205

Trp Glu Thr Ser Ser Asp Ala Asp Asp Gln Ile Asp Tyr Val Thr Glu  
210 215 220

Asp Leu Ala Gly Phe Leu Arg Ser Val Ile Val  
225 230 235

<210> 11

<211> 32

<212> DNA

<213> Artificial

<400> 11

gaagcttccc gggccgtgtc ataaacccgc cc

32

<210> 12

<211> 32

<212> DNA

<213> Artificial

<400> 12

caagcttccc gggatcatcg ccgggtttta cg

32